# Forward Observer PC **Simulator** Institute Naval Postgraduate School

Capt J.P. McDonough, USMC Capt Mark Strom, USMC

#### FOPCSIM Outline



- Background
- Current systems
- FOPCSIM version 1.0
- Version 2.0
- Contact Info

# Background



 Who needs to know how to for Fire? Everyone! Call

- Marine Officers
  - All Lts Learn at TBS, Quantico
  - Artillery (0802) Lt's More at Ft. Sill
- Marine Enlisted
  - Fire Support Man (0861)
  - · 4 weeks @ Ft Sill, OK
  - · 3 weeks EWTGPAC Coronado, CA

# Current Systems



- TSFO (Training Set, Fire Observation)
  - TBS, I MEF SimCenter, other FMF locations
- FOTS (Forward Observer Training System)
  - EWTGPAC
  - POC: John.Bilbruck@navy.mil
- ISMT-E (Indoor Simulated Marksmanship Trainer-Enhanced)
  - EWTGPAC, other FMF locations
  - http://www.fatsinc.com/html/military/2.2.htm
- GuardFist II
  - Ft Sill (Both officer and enlisted)
  - http://www.fidelitytech.com/guard.html

# Forward Observer Training VES System (FOTS) Navel Postere due to

Voice activated intelligent tutor reduces instructor hands-on requirements

System interface allows creation & modification of scenarios to provide non-redundant training events

True terrain association for the visual scene w/ three selectable battle terrains and corresponding non-geospecific maps that are WGS-84 & MGRS compliant

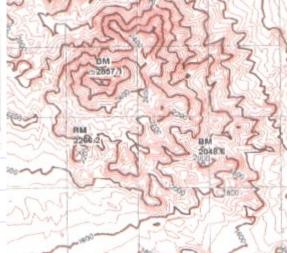
- Twenty-nine palms
- Camp Pendleton

COTS PC-based system: same day 4-hour 5x10 parts and labor on-site response

Scalable & Interoperable Architecture to meet training need



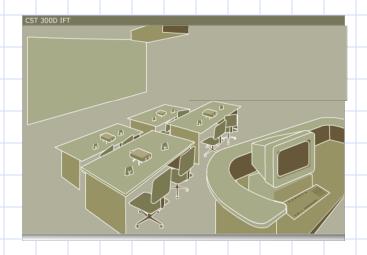




### ISMT - E

Indoor Simulated Marksmanship Trainer - Enhanced







Various systems found throughout the USMC

#### Guardfist II





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#### FOPCSIM ver. 1.0

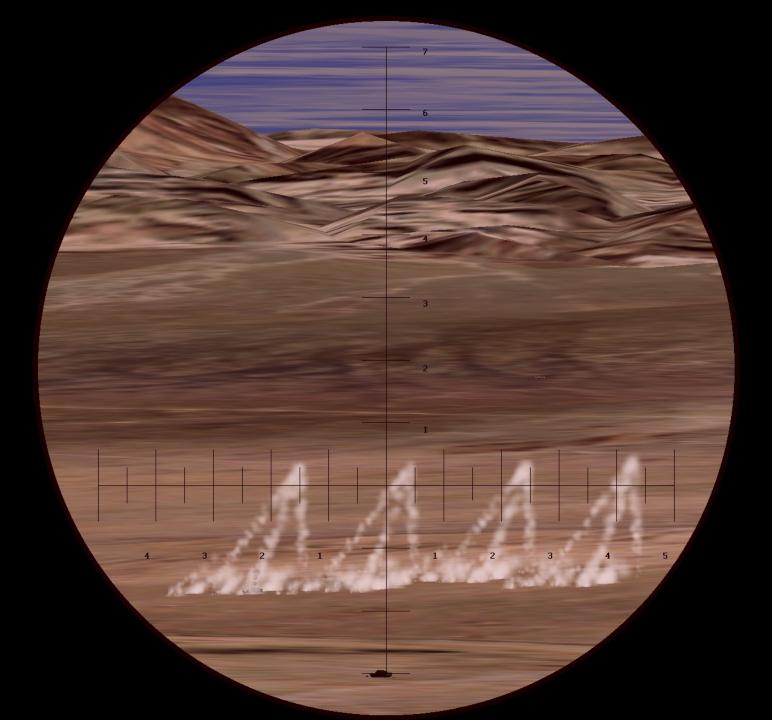


- Stand alone, PC based system
- Written in C++
- Distributed Application

Developed using VEGA







# Why Version 2.0?



- Complementary to existing systems
  - Replace TSFO
- Open Source- Using P-51
  - Avoid run time license \$\$\$
  - Unlimited distribution (Every FO, Lt)
- Improved Networking Capability / Interoperability
  - HLA compliant: DVTE compatible
  - AFATDS connectivity
- Task Trainer → Team Trainer

#### Version 2.0 cont... Naval Postgraduate School



- Planned Experimental Study:
  - · I MEF SimCenter, Camp Pendleton
  - · LT's @ TBS, Quantico VA
- Timeline
  - Prototype: Jan 05
  - Experimentation: May 05
  - Thesis Completion: July 05
- Follow on support

#### Contact Info



Capt J.P. McDonough jpmcdono@nps.edu

Capt Mark Strom mwstrom@nps.edu

http://www.nps.navy.mil/cs/Research/vissim/